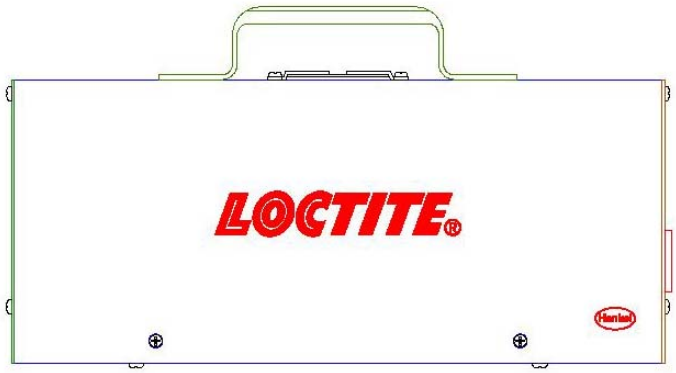
LOCTITE®

EQUIPMENT
Operation Manual



Loctite® Indigo 7418 Flood System

Part Number 971031

Henkel

1 Please Observe the Following

1.1 Emphasized Sections

⚠ WARNING!
Refers to safety regulations and requires measures to protect the operator and others from injury or danger to life.

❗ Caution!
Emphasizes what must be done or avoided so that the unit or other property is not damaged.

☞ **Notice:**
Gives recommendations for better handling of the unit during operation or adjustment, as well as for service activities.

1.2 Items Supplied

1 Visible Light Reflector Housing
1 Lamp
1 Power Supply
1 Protective Glass
1 Users Manual
1 Lamp to Power Supply Connecting Cord
1 AC Power Cord

1.3 For Your Safety

For safe and successful operation of the unit, read these instructions completely. If the instructions are not observed, the manufacturer can assume no responsibility.
Be sure to retain this manual for future reference.

⚠ WARNING! **Do not operate the system without the protective glass in place**

⚠ WARNING! **Do not look directly into the lamp/reflector assembly.**

⚠ WARNING! **Never remove the cover of the unit without first switching the power off and unplugging the power cord.**

⚠ WARNING! **Damage to the power cord or the housing can result in contact with live electrical parts. Check the power cord and housing before each use. If the power cord or unit is damaged, do not operate.**

The unit must be repaired only by a Loctite® authorized service technician.

❗ Caution! **Never turn the unit on without the lamp installed and with the power leads connected.**

❗ Caution! **The light from the unit can heat surfaces it is directed towards. Care must be taken to determine the proper offset distance and exposure time.**

❗ Caution! **Turning the lamp on and off frequently will increase the rate that the output declines. It is recommended that the unit be left on during breaks and short down times.**

1.4 Field of Application, (Intended Usage)

The 7418 Cure System is designed for use with Loctite® Visible Light Curing products that cure when exposed to energy produced by the unit.

2 Description

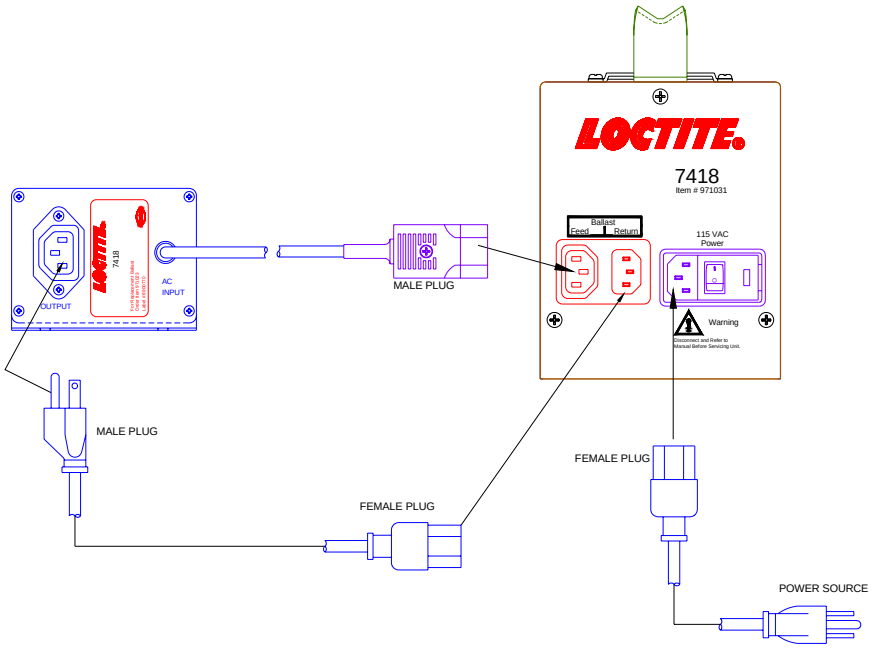
2.1 Theory of Operation

When the unit is switched on, power is immediately supplied to the lamp, which will light within several seconds. It will take several minutes for the lamp to reach its peak operating state. The curing process begins when the adhesive is placed under the lamp/reflector assembly. The two primary variables that control the curing process are the time of exposure and the strength of the light, (irradiance). For a given irradiance, the exposure time required to fully cure the adhesive depends primarily on the properties of the adhesive and the optical properties of the substrate that the light is transmitted through. The 7418 system is designed to irradiate highly concentrated visible light over the cure area.

3 Operating the Unit

3.1 Connections

- Plug the “AC Input” cord attached to the power supply into the reflector housing receptacle marked “Feed”.
- Plug the female end of the free cord into the reflector housing receptacle marked “Return”. Plug the opposite end of the cord into the power supply labeled “Output”.
- Plug the utility power cord into the reflector housing receptacle marked “115 VAC Power”. Plug the opposite end of the utility power cord into an electrical outlet.



3.2 Curing Procedure

- Having determined the irradiance needed to cure the adhesive, fixture the reflector housing over the work surface at the proper height. The ¼-20 threaded inserts located in the top of the reflector housing are intended for this purpose.
- Switch the main power to the unit ON and allow a minimum of five minutes for the lamp to reach its maximum output.
- Place the part/adhesive assembly under the reflector housing so that the center of the bond area is under the center of the housing for the required exposure period. If the unit is mounted over a conveyor, the parts must be passed under the center of the reflector housing for the best results.
- If the system is turned off, allow the lamp to cool before re-starting. This takes a minimum of fifteen minutes.

4 Maintenance

4.1 Protective Glass

It is recommended that the protective glass in the reflector housing be regularly inspected for cleanliness. Contaminants will adversely affect the curing process by reducing the transmission of visible light to the adhesive. Remove any contaminants by carefully wiping the glass surface with a soft, clean cloth and isopropyl alcohol.

⚠ WARNING! **Do not operate the system without the protective glass in place**

4.2 Replacing the Lamp

- Turn the system off and unplug the main power
- ⚠ WARNING! Allow the lamp to cool for before proceeding. Attempting to handle the lamp when hot can cause burns.
- Remove the screws that secure the two protective glass retainers on the bottom of the reflector housing.
- Carefully remove the protective glass.
- Reach into the housing and pull the lamp up by the ends, away from the reflector until it is free from its sockets.
- ❗Caution! Do not use bare hands to handle the new lamp's tube section. Handle the ends only. Contaminants such as skin oil will damage the lamp envelope when it is operating.
- Carefully remove the new lamp from its package.
- Align the ceramic portion of one lamp end with the slots in one of the sockets.
- Press down until the lamp end is completely and securely in the socket.
- Press the opposite end of the lamp into the other socket.
- Inspect the protective glass for cleanliness and clean, if necessary, using a soft, clean cloth and isopropyl alcohol.
- Replace the protective glass and retainers.

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5 Trouble Shooting

Condition	Possible Cause	Correction
The lamp does not ignite when the power is turned on	Lamp is not properly inserted in one or both sockets	Repeat the lamp installation procedure (section 4.2)
	The connecting cable is damaged or not installed properly	Re-connect the cable Check continuity
	The lamp has aged to the point that it no longer starts	Replace the lamp
	The power supply is not plugged in	Plug in
The product no longer cures or cures more slowly	The lamp has aged to the point that its output is too low	Replace lamp or move the reflector closer to the part
	Contamination on the protective glass is absorbing the light	Clean glass (Section 4.1)
The reflector housing fan does not operate	Faulty connection	Replace cable

6 Replacement Parts (part #)

Visible light lamp (971028)
Protective Glass (971024)
Power Supply (971023)

WARRANTY

Henkel expressly warrants that all products referred to in this Instruction Manual for 971031 Indigo 7418 Flood System (hereafter called "Products") shall be free from defects in materials and workmanship. Liability for Henkel shall be limited, as its option, to replacing those Products which are shown to be defective in either materials or workmanship or to credit the purchaser the amount of the purchase price thereof (plus freight and insurance charges paid therefore by the user). The purchaser's sole and exclusive remedy for breach of warranty shall be such replacement or credit.

A claim of defect in materials or workmanship in any Products shall be allowed only when it is submitted in writing within one month after discovery of the defect or after the time the defect should reasonably have been discovered and in any event, within two, (2), years after the delivery of the Products to the purchaser. This warranty does not apply to perishable items, such as (fuses, filters, lights, etc.). No such claim shall be allowed in respect of products which have been neglected or improperly stored, transported, handled, installed, connected, operated, used or maintained. In the event of unauthorized modification of the Products including, where products, parts or attachments for use in connection with the Products are available from Henkel, the use of products, parts or attachments which are not manufactured by Henkel, no claim shall be allowed.

The curing lamp included with this unit is fully warranted for failure to ignite for two thousand (2,000), hours of operation.

No Products shall be returned to Henkel for any reason without prior written approval from Henkel. Products shall be returned freight prepaid, in accordance with instructions from Henkel.

NO WARRANTY IS EXTENDED TO ANY EQUIPMENT WHICH HAS BEEN ALTERED, MISUSED, NEGLECTED, OR DAMAGED BY ACCIDENT, OR IF THE SYSTEM WAS USED TO DISPENSE ANY LIQUID MATERIAL OTHER THAN LOCTITE® PRODUCTS.

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